CLAIMS IN CURRENT FORM

(COMPLIANT WITH THE REVISION TO 37 CFR 1.121)

- 1. (PREVIOUSLY PRESENTED) A device comprising:
- a one-piece outer portion consisting of an electrically insulative material and having dimensions effective to prevent or inhibit plasma arcing to an electrically conductive surface of an aperture through a wall of a plasma processing chamber, said one-piece outer portion further comprising:

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- (i) a flange section configured to remain outside of said wall;
- (ii) a lower section having a shape approximate said aperture to fit into said aperture; and
- (iii) an inner opening communicating through the electrically insulative material between a bottom and a top of the outer portion.
- 2. (ORIGINAL) A plasma processing chamber having: at least one aperture therein, the at least one aperture having an exposed electrically conductive surface, and the device of Claim 1, located inside the aperture.
- 3. (ORIGINAL) A method of making a plasma processing chamber, the chamber having at least one aperture therein, the at

least one aperture having an exposed electrically conductive surface, the method comprising inserting the device of Claim 1 into the aperture.

- 4. (PREVIOUSLY PRESENTED) A method of processing a workpiece, comprising the following steps:
- (A) exposing the workpiece to a plasma in the plasma processing chamber of Claim 2; and
- (B) transmitting a signal through the device out from the plasma processing chamber.
- 5. (PREVIOUSLY PRESENTED) A plasma processing chamber having:

a wall;

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at least one aperture through said wall, the at least one aperture having an exposed electrically conductive surface, and

a one-piece sleeve inside the aperture, the one-piece sleeve consisting of an electrically insulative material and having:

- (i) dimensions effective to prevent or inhibit plasma arcing to the exposed electrically conductive surface of the aperture;
- (ii) a flange section configured to remain outside
 said wall;

- (iii) a lower section having a shape approximate
 15 said aperture to fit into said aperture; and
 - (iv) an inner opening communicating through the electrically insulative material from a bottom to a top of the one-piece sleeve.
 - 6. (PREVIOUSLY PRESENTED) A method of making a plasma processing chamber having a wall, the method comprising:
 - (A) forming at least one aperture through said wall, the at least one aperture having an exposed electrically conductive surface; and

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- (B) inserting a one-piece sleeve into the aperture, the one-piece sleeve consisting of an electrically insulative material and having:
- (i) dimensions effective to prevent or inhibit plasma arcing to the exposed electrically conductive surface of the aperture;
 - (ii) a flange section configured to remain outside said wall;
- (iii) a lower section having a shape approximate said aperture to fit into said aperture; and
 - (iv) an inner opening communicating through the electrically insulative material between a bottom and a top of the one-piece sleeve.

- 7. (PREVIOUSLY PRESENTED) The method of Claim 6, further comprising, prior to inserting said one-piece sleeve, the step of forming said bottom of said one-piece sleeve to a plane having a non-orthogonal angle relative to said inner opening.
- 8. (PREVIOUSLY PRESENTED) A method of processing a workpiece, comprising:
- (A) exposing the workpiece to a plasma in a chamber, the chamber having (1) a wall, (2) an aperture having an exposed electrically conductive surface through said wall, and (3) a one-piece sleeve in the aperture, the one-piece sleeve consisting of an electrically insulative material and having:

- (i) dimensions effective to prevent or inhibit plasma arcing to the exposed electrically conductive surface of the aperture,
- (ii) a flange section configured to remain outside said wall,
- (iii) a lower section having a shape approximate a width of said aperture to fit into said aperture; and
- 15 (iv) an inner opening communicating through the electrically insulative material between a bottom and a top of the one-piece sleeve; and

- (B) transmitting a signal through the one-piece sleeve out from the chamber.
- 9. (ORIGINAL) A method of operating a plasma processing chamber, wherein the chamber has at least one aperture therein and the aperture has an exposed electrically conductive surface, the method comprising the steps of:
- (A) initiating a plasma in the chamber, the aperture having the device of Claim 1 therein, then
 - (B) cleaning the chamber and the device.

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- 10. (ORIGINAL) The method of Claim 9, wherein said plasma exists in said chamber for a predetermined period of time.
- 11. (PREVIOUSLY PRESENTED) The method of Claim 9, further comprising, prior to step B, the steps of:

exposing a workpiece to the plasma, and

transmitting a spectroscopic signal through the device indicating an etching endpoint.

12. (PREVIOUSLY PRESENTED) The device according to claim 1, wherein

said flange section has a width that is greater than a corresponding width of said aperture.

- 13. (PREVIOUSLY PRESENTED) The device according to claim
 12, wherein said device applies a predetermined amount of pressure
 against an inner wall of said aperture.
- 14. (PREVIOUSLY PRESENTED) The device according to claim 12, wherein said lower section has a first length and said flange section has a second length.
- 15. (PREVIOUSLY PRESENTED) The device according to claim
 14, wherein said first length is greater than a length of said
 aperture.
- 16. (PREVIOUSLY PRESENTED) The device according to claim
 1, wherein an outer surface of said device forms an angle with
 reference to the bottom of said device.
- 17. (ORIGINAL) The device according to claim 16, wherein said angle is non-orthogonal.
- 18. (PREVIOUSLY PRESENTED) The device according to claim
 1, wherein said inner opening transfers a spectroscopic endpoint
 detection signal.

- 19. (ORIGINAL) The plasma processing chamber of claim 2, wherein said at least one aperture comprises an endpoint detection channel.
- 20. (ORIGINAL) The device according to claim 1, wherein the electrically insulative material is selected from the group consisting of ceramics, multi-crystal ceramics, polyvinyl polymers, polytetrafluoroethylene, polyethylene, polypropylene, polyimides, polycarbonates and single crystal insulative minerals.